SkillRack

MONICA A-1912080@nec

0/10 22 0 0 794 1520

Theme

Home Reports Profile Help Logout

LeaderBoard & Prev Day Solution

DAILY CHALLENGE ProgramID- 6249 SkillRack

Interchange Diagonals in Matrix

The program must accept an integer matrix of size N*N as input. The program must interchange the values in the diagonals of the matrix. Finally, the program prints the matrix.

Boundary Condition(s):
1 <= N <= 50

Input Format:
The first line contains the value of N.
The next N lines contain N integers each separated by space(s).

Output Format:
The first N lines contain N integers each separated by a space.

Example Input/Output 1:
Input:
3
5 1 6
4 2 9
8 7 3

Output:
6 1 5
4 2 9
3 7 8

Explanation:
The main diagonal elements are 5 2 3
The opposite diagonal elements are 6 2 8
In the 1st row, interchange 5 and 6
In the 2nd row, 2 is common for both the diagonals. Hence no need to interchange.
In the 3rd row, interchange 8 and 3

Example Input/Output 2:
Input:
4
54 86 35 71
78 32 85 62
69 84 66 45
37 79 73 30

Output:
71 86 35 54
78 85 32 62
69 66 84 45
30 79 73 37

Max Execution Time Limit: 5000 millisecs

Ambiance | Java (12.0) | Reset

```
1  import java.util.*;
2  public class Hello {
3
4      public static void main(String[] args) {
5          Scanner sc=new Scanner(System.in);
6          int n=sc.nextInt();
7          int[][] arr=new int[n][n];
8
9          for(int i=0;i<n;i++){
10             for(int j=0;j<n;j++){
11                 arr[i][j]=sc.nextInt();
12             }
13         }
14         int k=n-1;
15         int o=0;
16
17         for(int i=0;i<n;i++){
18             for(int j=0;j<n;j++){
19
20                 if(i==j){
21                     int tem=arr[i][j];
```

```
                    arr[i][j]=arr[o][k];
                    arr[o++][k--]=tem;

                     }

                }
            }

    for(int i=0;i<n;i++){
        for(int j=0;j<n;j++){
            System.out.print(arr[i][j]+" ");
        }
        System.out.println();
    }


        // System.out.print(Arrays.deepToString(arr));
     }
}
```

1912080@nec

Save Run

Run with a custom test case (Input/Output)